RUHAT BANGALORE MAHANAGARA PALIK

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

BYATARAYANAPURA SUB DIVISOIN

Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Byatarayanapura Sub Division

Est Cost : 60.00 Lakhs

P Code : P-3726

ಅಂದಾಜು ಪಟ್ಟಿಯ ವರದಿ

ವಿಷಯ: ವಾರ್ಡ್ ನಂ. 06(ಕೋಗಿಲು) ವ್ಯಾಪ್ತಿಯ Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Byatarayanapura Sub Division ಕಾಮಗಾರಿಗೆ ಅನುಮೋದನೆ ನೀಡುವ ಕುರಿತು.

ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ವಾರ್ಡ್ ನಂ. 06(ಕೋಗಿಲು) ವ್ಯಾಪ್ತಿಯ Improvements to Roads and drain at Chokkanahalli and Thirumenahalli Surrounding area in Ward No.06 Byatarayanapura Sub Division ಕಾಮಗಾರಿಗೆ ರೂ. 60.00 ಲಕ್ಷಗಳ ಅಂದಾಜು ಮೊತ್ತದಲ್ಲಿ 2022-23 ನೇ ಸಾಲಿನ ಆಯವ್ಯಯದ ಲೆಕ್ಕಶಿರ್ಷಿಕೆ ಪಿ-3726ರ ಕಾಮಗಾರಿ ಕ್ರಿಯ ಯೋಜನಾ ಪಟ್ಟಿಯಲ್ಲಿ ಕಾಮಗಾರಿಯನ್ನು ನಿರ್ವಹಿಸಲು ಅವಕಾಶ ಕಲ್ಪಿಸಲಾಗಿದ್ದು, ದಿನಾಂಕ: 06.08.2022 ರಂದು ನಡೆದ ವಾರ್ಡ್ ಮಟ್ಟದ ಸಾರ್ವಜನಿಕ ಲೋಕೋಪಯೋಗಿ, ನಗರ ಯೋಜನೆ ಮೂಲ ಸೌಕರ್ಯ ಸ್ಥಾಯಿ ಸಮಿತಿ ಸಭೆಯ ನಡವಳಿ ವಿಷಯದ ಸಂಖ್ಯೆ. 178/2022-2 ರಲ್ಲಿ ಮಾನ್ಯ ಆಡಳಿತಗಾರರು ಅನುಮೋದಿಸಿರುತ್ತಾರೆ.

ಅದರಂತೆ ವಾರ್ಡ್ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಬರುವ ತಿರಮೇನಹಳ್ಳಿಯಲ್ಲಿ ಹೊಸದಾಗಿ ಆರ್.ಸಿ.ಸಿ ಚರಂಡಿ, ಅಡಿಗಾಲುವೆ ಮತ್ತು ಡಾಂಬರು ರಸ್ತೆ ನಿರ್ಮಾಣ ಮಾಡುವ ಕಾಮಗಾರಿಯನ್ನು ಕೈಗೊಳ್ಳಲು ಸ್ಥಳ ಪರಿಶೀಲನೆ ಮಾಡಿ, ಅಗತ್ಯ ಅಂಶಗಳನ್ನು ಅಳವಡಿಸಿಕೊಂಡು ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ಈ ಕೆಳಕಂಡ ಐಟಂಗಳನ್ನು ಅಳವಡಿಸಿ ತಯಾರಿಸಲಾಗಿರುತ್ತದೆ.

1. ಆರ್.ಸಿ.ಸಿ ಚರಂಡಿ ನಿರ್ಮಾಣ ಮಾಡುವುದು
2. ಫ್ರೀಕ್ಯಾಸ್ಟ್ ಕವರಿಂಗ್ ಸ್ಲಾಬ್‌ಗಳನ್ನು ಅಳವಡಿಸುವುದು
3. ಅಡಿಗಾಲುವೆಗಳ ನಿರ್ಮಾಣ
1. ರಸ್ತೆಗೆ, ವೆಟ್‌ಮಿಕ್ಸ್ ಹರಡಿ, ಬಿ.ಎಂ ಮತ್ತು ಬಿ.ಸಿ ಮಾದರಿಯ ಡಾಂಬರೀಕರಣ ಮಾಡುವುದು
4. ಚರಂಡಿ ನಿರ್ಮಿಸಲು ಅಗೆತ ಮಾಡಿರುವ ಮಣ್ಣನ್ನು ಹೊರಸಾಗಿಸುವುದು ಹಾಗೂ ಇತರೆ ಅವಶ್ಯಕ ಅಂಶಗಳಿಗೆ ಅಂದಾಜಿನಲ್ಲಿ ಅವಕಾಶ ಕಲ್ಪಿಸಿಕೊಂಡಿರುತ್ತದೆ.

ಮೇಲ್ಕಂಡ ಅಂಶಗಳನ್ನು ಅಳವಡಿಸಿ ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು PWD SR- 2021-22 ದರಪಟ್ಟಿ ದರಗಳನ್ನು ಅಳವಡಿಸಿ ತಯಾರಿಸಲಾಗಿರುತ್ತದೆ. ಸದರಿ ಅಂದಾಜು ಪಟ್ಟಿಗೆ 2022-23ನೇ ಸಾಲಿನ ಅನುದಾನದ ಲೆಕ್ಕ ಶಿರ್ಷಿಕೆ ಪಿ-3726ರ ಅಡಿಯಲ್ಲಿ ಅನುಮೋದಿಸಿ, ಆಡಳಿತಾತ್ಮಕ ಅನುಮೋದನೆ, ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿ ಕಾಮಗಾರಿಯನ್ನು ತುರ್ತಾಗಿ ಕೈಗೊಳ್ಳಬೇಕಾಗಿರುವುದರಿಂದ ಟೆಂಡರ್ ಕರೆದು ಗುತ್ತಿಗೆದಾರರನ್ನು ನೇಮಿಸಿ ಕಾರ್ಯದೇಶ ನೀಡಲು ಈ ಮೂಲಕ ತಮ್ಮಲಿ ಕೋರಲಾಗಿದೆ.

ಸಹಾಯಕ ಅಭಿಯಂತರರು

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to roads and drains at Chokkanahalli And Thirumenahalli Surrounding area in ward No.06 Byatarayanapura Sub Division

								Estimation Cost.Rs	6000000.00
Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
1	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. (PWD SR 2021-22 Vol -I Pg No 5 item no 1.4.1)								
	New Drain	**Cum**							
	Thirumenahalli								
	Cross Road	Cum	1	300.70	1.10	0.90	297.69		
	For Culvert								
		Cum	2	5.80	1.40	0.95	15.43		
	Basic rate	186.00							
	Area weightage 10%	18.60							
	Sub Total	**204.60**							
	Total						**313.12**	**204.60**	**64065.00**
2	Providing and laying in position plain cement concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (PWD SR 2021-22 Vol -I Pg 15 item no 2.1.3)								
	For Drain	**Cum**							
	Thirumenahalli								
	Cross Road	Cum	1	300.70	1.10	0.15	49.62		
	For Culvert								
		Cum	2	5.80	1.40	0.15	2.44		
	Basic rate	5554.00							
	Area weightage 10%	555.40							
	Sub Total	**6109.40**							
	Total						**52.05**	**6109.40**	**318004.00**
3	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately) (PWD SR 2021-22 Vol -I Pg 17 item no 2.4.2)								
	Bottom Raft	Cum							
	Thirumenahalli								
	Cross Road	Cum	1	300.70	0.90	0.15	40.59		
	Side Wall								
	Thirumenahalli								
	Cross Road	Cum	2	300.70	0.15	0.60	54.13		
						Sub Total	**94.72**		
	Culvert								
	Bottom Raft	Cum							
		Cum	2	5.80	1.20	0.20	2.78		
	Side Wall								
		Cum	4	5.80	0.20	0.60	2.78		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
						Sub Total	5.57		
	Basic rate	5968.00							
	Add 5% for Shuttering	298.40							
		6266.40							
	Area weightage 10%	626.64							
	Sub Total	**6893.04**							
	Total						100.29	6893.04	691293.00
4	Supplying, Fitting and Placing TMT Fe550 bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. MORTH Specification NO.1600&2200 (PWD SR 2021-22 Vol -III Pg 99 item no 13.1)								
	For Drain	Cum					94.72		
		kg	Steel assumed 60Kg/Cum of Concrete				5683.23		
		tonne					**5.68**		
	For Culvert	Cum					5.57		
		kg	Steel assumed 90 Kg/Cum of Concrete				501.12		
		tonne					**0.50**		
	Basic rate	92170.00							
	Area weightage 10%	9217.00							
	Sub Total	**101387.00**							
	Total						**6.18**	**101387.00**	**627013.00**
5	Providing and Fixing pre cast covering Slab 100mm thick made out of CC , Jelly 20mm Down Size with steel reinforcement including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc. complete as per Engineer incharge. (Data Rate)								
	Thirumenahalli	Sqm							
	Cross Road	Sqm	1	300.70	0.90		270.63		
	Data rate	**2072.00**							
	Total						**270.63**	**2072.00**	**560746.00**
6	Providing and Fixing pre cast covering Slab 230mm thick made out of CC , Jelly 20mm Down Size with steel reinforcement including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc. complete as per Engineer incharge. (Data Rate)								
	Culvert cover Slab	Sqm							
		Sqm	2	5.80	1.20		13.92		
	Data rate	**5037.00**							
	Total						**13.92**	**5037.00**	**70116.00**
7	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work. In all kinds of soils upto 300 mm depth. (PWD SR 21-22 Vol I Pg no 8 Item No 1.12)								
	Thirumenahalli								
	Cross Road	Cum	1	300.70	5.40	0.20	324.76		
	Basic rate	65.00							
	Area weightage 10%	6.50							
	Sub Total	**71.50**							
	Total						**324.76**	**71.50**	**23221.00**
8	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density MORTH Specification No. 406 (PWD SR 21-22 Vol III Pg no 24 Item No 4.27 (A)								
	Road Cut Portion	Cum							
	Thirumenahalli								
	Cross Road	Cum	1	300.70	5.40	0.20	324.76		

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Basic rate	2394.00							
	Area weightage 10%	239.40							
	Sub Total	**2633.40**							
	Total						324.76	2633.40	855213.00
9	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means MORTH Specification No. 502 (PWD SR 21-22 Vol III Pg no 29 Item No 5.1 A (i))								
	Thirumenahalli								
	Cross Road	Sqm	1	300.70	5.40		1623.78		
	Basic rate	42.00							
	Area weightage 10%	4.20							
	Sub Total	**46.20**							
	Total						1623.78	46.20	75019.00
10	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects (PWD SR 21-22 Vol III Pg no 33 Item No 5.12 (C))								
	Thirumenahalli								
	Cross Road	Cum	1	300.70	5.40	0.05	81.19		
	Basic rate	9139.00							
	Area weightage 10%	913.90							
	Sub Total	**10052.90**							
	Total						81.19	10052.90	816185.00
11	Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.25 kg/m2 on the prepared bituminous surface cleaned with mechanical broom MORTH Specification No. 503 (PWD SR 21-22 Vol III Pg no 29 Item No 5.4 (ii))								
	Thirumenahalli								
	Cross Road	Sqm	1	300.70	5.40		1623.78		
	Basic rate	14.00							
	Area weightage 10%	1.40							
	Sub Total	**15.40**							
	Total						1623.78	15.40	25007.00
12	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade,level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects (PWD SR 21-22 Vol III Pg no 36 Item No 5.16)								
	Thirumenahalli								
	Cross Road	Cum	1	300.70	5.40	0.04	64.95		
	Basic rate	10611.00							
	Area weightage 10%	1061.10							
	Sub Total	**11672.10**							
	Total						64.95	11672.10	758117.00
13	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes. MORTH Specification No. 803 (PWD SR 21-22 Vol III Pg no 57 Item No 8.15)								
	Thirumenahalli								
	Cross Road	Sqm	2	300.70	0.10		60.14		
	Basic rate	478.00							
	Area weightage 10%	47.80							
	Sub Total	**525.80**							
	Total						60.14	525.80	31622.00

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
14	**Loading and Unloading of Stone Boulder**/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 5.5 m3) (PWD SR 2021-22 Vol-III Page No.3, Item No.1.1A)								
	Qty Vide frm Item No- 01+07	Cum					637.88		
	Total						637.88	129.80	82797.00
	Basic rate	118.00							
	Area Weightage 10%	11.80							
	Total	129.80							
15	**Cost of Haulage** Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km (PWD SR 2021-22 Vol-III Page No.3, Item No.1.4A)								
	Qty frm Item No- 14	t.Km		637.88	1.28		816.48		
	Total						816.48	105.60	86221.00
	Basic rate	12.00							
	8Km 12*8	96.00							
	Area Weightage 10%	9.60							
	Total	105.60							
								Grand Total	5084639.00
								GST Charges (18% of estimated cost)	915236.00
								Miscellenious and rounding	125.00
								Total Amount	6000000.00
								RUPEES SIXTY LAKH ONLY	

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019, PWD 2021-2022, Issue rates and Data Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

ADMINISTRATIVE APPROVAL

Accorded For Rs. Rs. 60.00 Lakhs

Head of A/c. P3726

Div. Ref No. A1 Date. 21/02/23

AE EE(BTP)

Technical Sanction
Accorded For Rs. 60.00 Lakhs
Head of A/C. P-3726
CER NO : 96 Dt: 16-09-22